

## ABSTRACT OF THE DISCLOSURE

A two-piece adjustable auto-search alarm device enables two-way transmission of alarm signals between a master and more than one secondary controller thereof, and includes a signal transmitter, a signal receiver, a frequency regulator, and an operation unit provided in the master controller, and a signal transmitter and a signal receiver provided in each secondary controller. The master controller is unable to receive a signal from the secondary signal transmitter when the secondary controller is located beyond a signal transmitting range set with the frequency regulator or fails to feed back a signal to the master controller due to losing its power supply, and LED lamps provided on the master and secondary controllers would light at the same time to provide the function of supervising a distance between the master and the secondary controller.